

The study of B weak decay and the scalar $D\bar{D}$ bound state

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I will present our recent work of [Eur Phys J C76 (2016) 121]. We study the B weak decay based on the chiral unitary approach that generates the $X(3720)$ resonance, and make predictions for the $D\bar{D}$ invariant mass distribution. From the shape of the distribution, the existence of the resonance below threshold could be induced. We also predict the rate of production of the $X(3720)$ resonance to the $D\bar{D}$ mass distribution with no free parameters.

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